

Effects of Transportation Stress, Handling Stress and Flunixin Meglumine ~ 13 days after Al on Pregnancy Establishment in Beef Cattle

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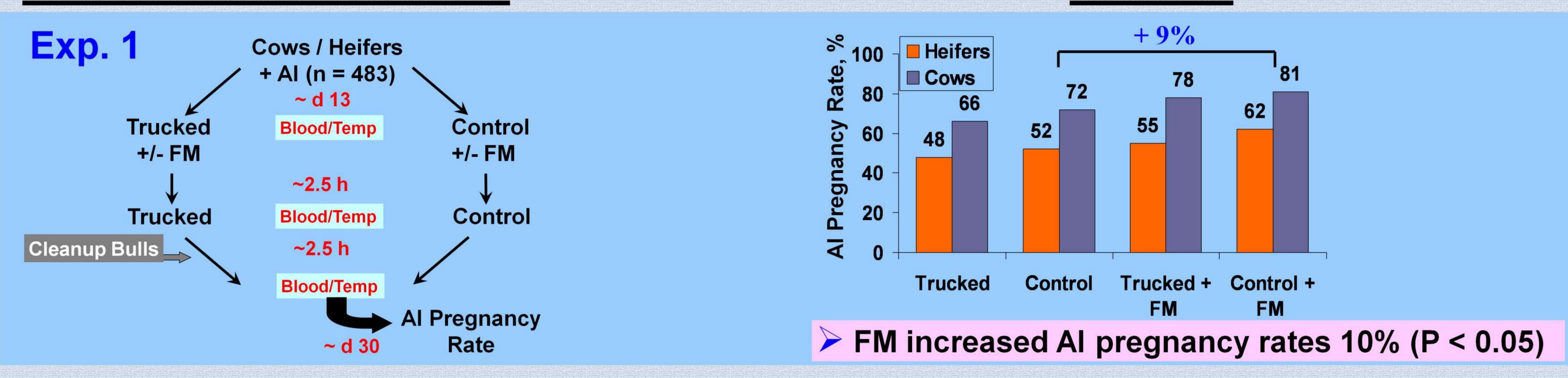
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Introduction

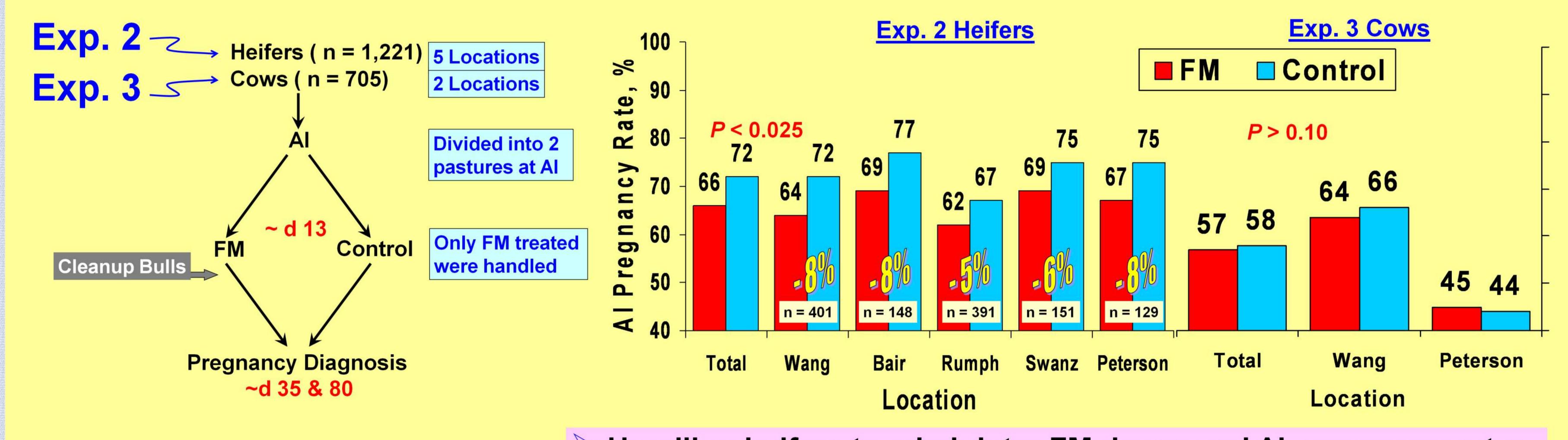
Embryonic mortality represents a significant loss to the beef and dairy industries and may represent the single greatest economic loss for cow/calf producers. With 40,000,000 beef cows and heifers exposed to breeding each year in the U.S., annual losses exceed \$1.2 billion. Transportation of cattle at critical times after Al decreased pregnancy rates, presumably through increased embryonic loss. Our objective was to determine effects of transportation, handling stress, and a single injection of Flunixin Meglumine (FM; a prostaglandin inhibitor) ~13 d after Al on pregnancy establishment.

<u>Materials and Methods</u>

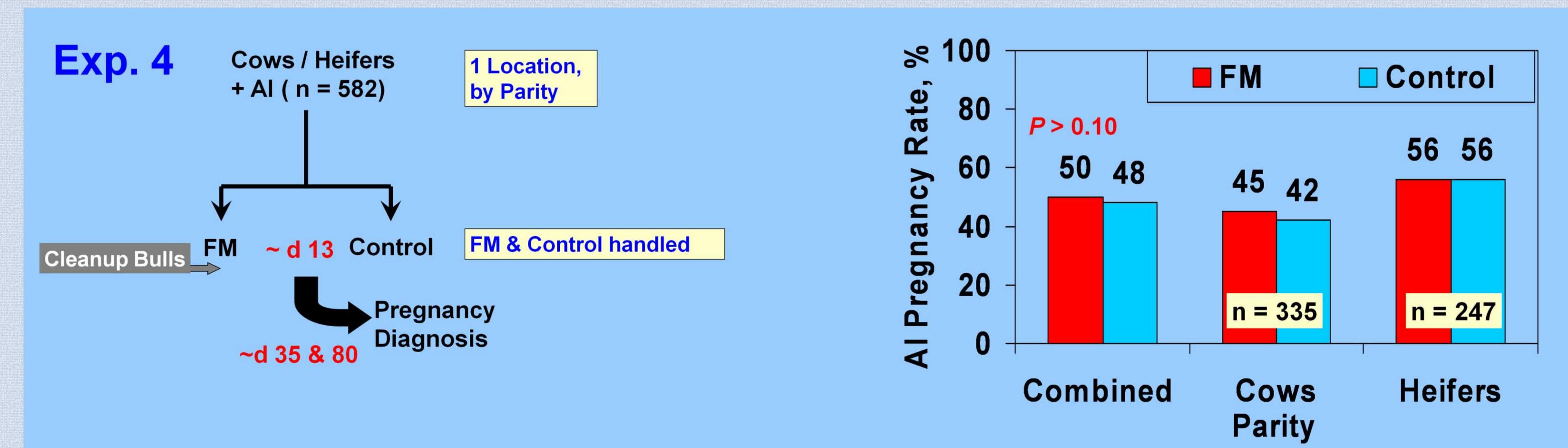
Results



Can FM improve pregnancy establishment compared to non-stressed females?



Handling heifers to administer FM decreased Al pregnancy rates



Conclusions

- 1. Handling stress after Al causes embryonic mortality in cattle!
- 2. Administration of Flunixin Meglumine can overcome that loss in cows.
- 3. Flunixin Meglumine appears to salvage embryonic loss that occurs in cattle transported 10 to 15 d after Al.